**Product Details**

**RRID**

AB_1898233

**Applications**

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

<table>
<thead>
<tr>
<th>Method</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<tbody>
<tr>
<td>Flow Cytometry</td>
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<td>Immunohistology - Paraffin</td>
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<td>ELISA</td>
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<td>Immunofluorescence</td>
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Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

**Target Species**

Mouse

**Product Form**

Purified IgG - liquid

**Preparation**

Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

**Buffer Solution**

Phosphate buffered saline

**Preservative Stabilisers**

0.09% Sodium Azide

**Carrier Free**

Yes

**Approx. Protein Concentrations**

IgG concentration 1.0 mg/ml
Immuneogen: Murine CD4.

External Database Links

UniProt: [P06332]
Related reagents
Entrez Gene: 12504 Cd4 Related reagents

Fusion Partners
Spleen cells from immunised Lewis rats were fused with cells of the SP2/0 myeloma cell line.

Specificity

Rat anti Mouse CD4 antibody, clone GK1.5 recognizes mouse CD4, a ~55 kDa protein also known as Ly-4 and L3T4. CD4 is a single chain transmembrane glycoprotein which belongs to the immunoglobulin superfamily, and is primarily expressed on T helper cells, peripheral blood monocytes and tissue macrophages. CD4 is also expressed on a subpopulation of regulatory T cells (CD4+ CD25+), which play a key role in the maintenance of self tolerance.

Rat anti Mouse CD4 antibody, clone GK1.5 has been reported to block CD4+ T-cell activation. It blocks class II MHC antigen-specific binding, thereby inhibiting functions such as class II MHC antigen-specific proliferation and the release of lymphokines. It may also be used for in vivo and in vitro cell depletion of CD4+ T-cells.

Flow Cytometry
Use 10ul of the suggested working dilution to label 1x10^6 cells in 100ul.

References
10. Olesen, M. N. et al. (2018) CD4 T cells react to local increase of α-synuclein in a pathology-
associated variant-dependent manner and modify brain microglia in absence of brain pathology
Heliyon. 4 (1): e00513.

Storage

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee

18 months from date of despatch.

Health And Safety

Material Safety Datasheet documentation #10040 available at:

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR17...) FITC
Goat Anti Rat IgG (STAR69...) FITC
Goat Anti Rat IgG (STAR131...) Alk. Phos., Biotin
Goat Anti Rat IgG (STAR73...) RPE
Rabbit Anti Rat IgG (STAR21...) HRP
Goat Anti Rat IgG (STAR72...) HRP
Rabbit Anti Rat IgG (STAR16...) DyLight®800
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...) DyLight®800